

ANDALUSIA REFUGE

HABITAT REHABILITATION AND ENHANCEMENT PROJECT

Pool 16
Upper Mississippi River Miles
462.0 - 463.0

Rock Island County, Illinois
Rock Island District



PROJECT AUTHORITY:

The Andalusia Refuge, Illinois, habitat rehabilitation and enhancement project was implemented as an element of the Upper Mississippi River System-Environmental Management Program (UMRS-EMP). The EMP

was authorized by the 1986 Water Resources Development Act.

SITE DESCRIPTION:

Andalusia Refuge is a 393-acre backwater complex located approximately 1 mile upstream of Illinois City, Illinois. All project site lands are federally owned. The site is managed by the Illinois Department of Natural Resources (ILDNR) under a cooperative agreement with the U.S. Fish and Wildlife Service.

RESOURCE PROBLEM:

Prior to this project, there were no moist soil management units located in Pool 16. The lack of shallow water habitat was adversely affecting waterfowl and furbearers. Fisheries suffered due to the lack of off-channel, deep aquatic habitat within this pool.

PROJECT OUTPUTS:

Water level control within the refuge has allowed development of a moist soil management unit that provides submergent and emergent vegetation for migrating waterfowl. Nearly 130 acres of managed nesting, resting, and shallow water feeding habitat for waterfowl has been created. Fisheries benefit from year-round access to deepwater channels in Dead Slough and the construction of channels within the refuge itself. Sedimentation in the refuge backwaters has been reduced; however, the Dead Slough access channel will require periodic excavation to maintain suitable depths.

PROJECT FEATURES:

- * An 8,600-foot perimeter levee, including a 600-foot armored overflow section, constructed at a 2-year level of protection creating a 130-acre Moist Soil Management Unit (MSMU);
- * A pump station with two 6,775-gpm pumps,
- * A 36-inch water control structure;
- * 8,600 feet of interior drainage channels and 9 acres of islands
- * Dead Slough dredging (85,000 cubic yards);
- * An 1,100-foot access channel between Scisco Chute and Dead Slough; and
- * A diversion ditch and access road.

FINANCIAL DATA:

General design	\$ 444,000
Construction	<u>\$2,171,000</u>
Total Project Cost	\$2,615,000

Annual costs estimated at \$11,400 for operation, maintenance, and repair will be the responsibility of the non-Federal project sponsor, the ILDNR.

STATUS:

Project construction was completed in September 1994. The project has been turned over to the ILDNR for operation and maintenance. Performance monitoring is continuing. An initial performance evaluation report was completed in September 1997.